



TEP, TEP2S, TEP3

The TEP favourably replace PETER and TEH heads on TVP lines

Application :

- Retrofit equipment for TVP2
- Retrofit in new or retrofit for TVP2S
- Equipment for TVP3

The TEH advantages have been kept:

Roller diameter: 150 mm

Position of the lamellas at the top and bottom of the rollers

Tightening plates and lamellas design

Frame plate for the head

Bearing boxes on ramp guides

And even more advantages:

Fluid = air instead of oil

Jointless cylinders without maintenance (no piston, hence no internal leak)

A better design of safety

2 types of TEP heads for the 3 TVP:

- complete pneumatic technology for TVP2 and TVP2S

- electro-pneumatic technology with control of the pressure by the TVP3

Only one service side for the operator

Reduced maintenance

Double chain without lubrication for TVP2S and TVP3

Roller pinions with a double width

Standardization of the parts between the different models

The TEH inconveniences have been eliminated:

No more hydraulic device

No more oil leak

No more internal leak

No more difficult hydraulic maintenance

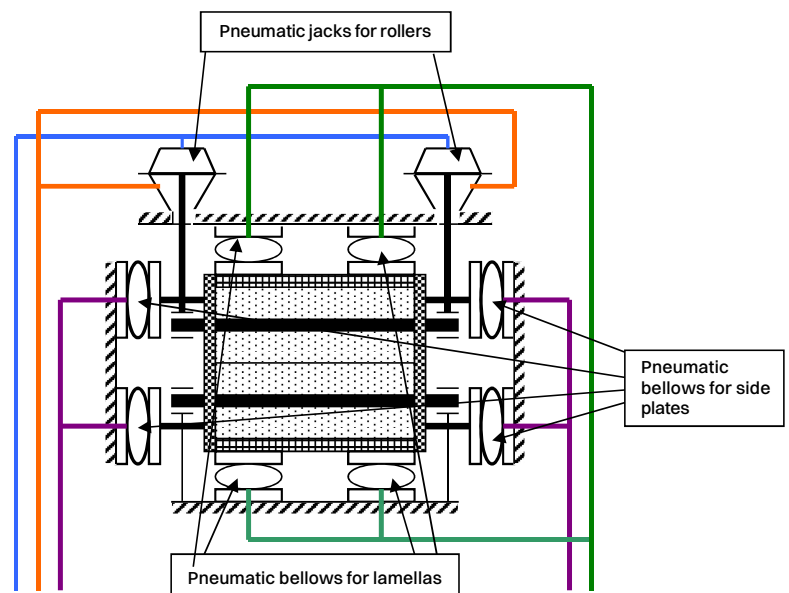
Pneumatic assistance:

2 blocks of jacks for the assistance of the higher and lower lamellas

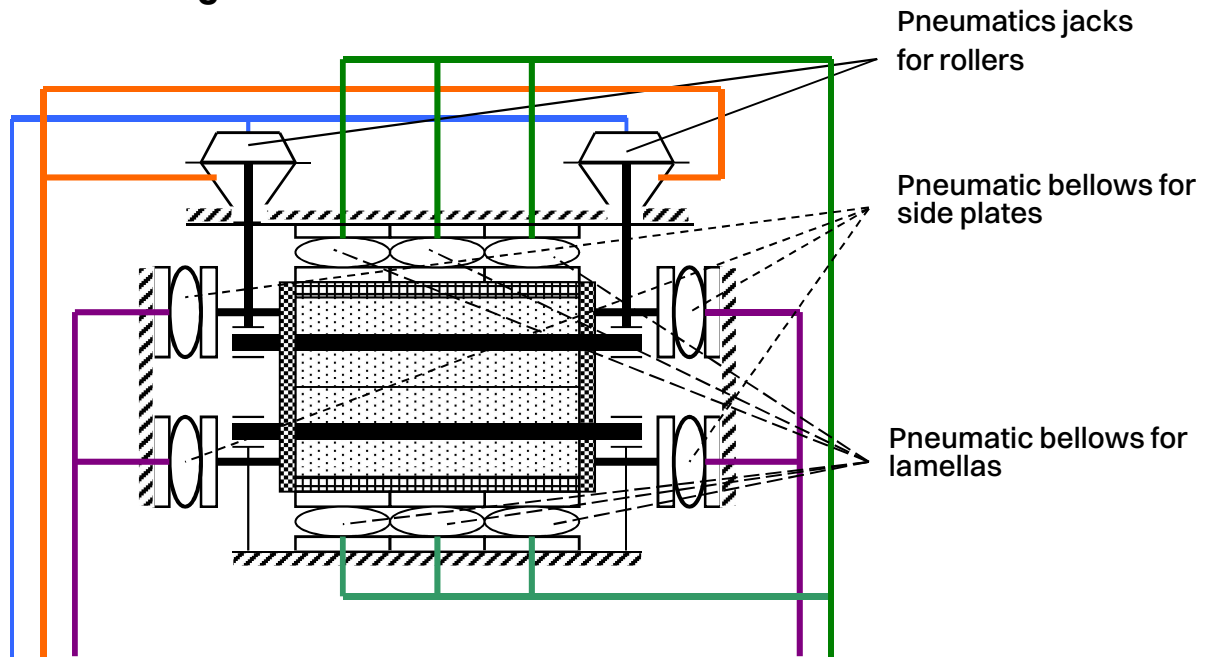
2 blocks of jacks for the assistance of the side plates right and left

2 jacks for the assistance of the upper roller

TEP2 head design:



TEP2S head design:



Running Principle:

First case: closing of the head

The tunnel is out of pressure.

The action on the switch "close the head" starts the cycle of closing the head with a sequence to ensure a correct positioning of the rollers.

During this cycle, an action on the switch "emergency stop" causes an emergency stop of the line, removes the air pressure from the pneumatic cabinet, from the air bellows and from the diaphragm actuators.

The fault indicator becomes red.

Procedure of reboot:

When the defect is eliminated, re-initialize the emergency switch then press the reset push-button: when re-initialization is finished the head state is "open".

Second case : the tunnel is pressured

In that case, pressing the emergency button stops the line but does not open the head.

The pneumatic bellows remain under pressure and also the diaphragm actuators: they are isolated from the pneumatic cabinet.

After having eliminated the defect, re-arm the button "emergency stop".

Then press the button "reset" to eliminate the defect.

After that, the head is ready to run.

In the event of temporary pressure drop of the network or in the event of defect of air supply, the head remains closed and a signal puts the line in defect.

Third case : open the head

Pressing the button "opening head" is without effect if the pressure in the tunnel is not null.
 If the internal pressure of the tunnel is null, pressing the button "opening head" opens the head and raises the supporting roller by 10 millimetres.
 The belt is then released.
 During the cycle of opening, or when the head is opened, pressing the button "emergency stop" releases the pressures on the pneumatic cabinet and the pneumatics bellows.
 The supporting roller goes down under the action of its weight.
 After re-arming the button "emergency stop", reset the error by pushing the button "reset" which replaces the head with the state "head open".

TEP Range

For machine type :	TVP2	TVP2S	TVP3
Type	TEP2	TEP2S	TEP3
Design	sequential pneumatic technology	sequential pneumatic technology	electro pneumatic technology / proportional
detection of lamella wear	option	of series	of series
detection of plate wear	option	of series	of series

PICTURES OF DIFFERENT TEP HEADS:



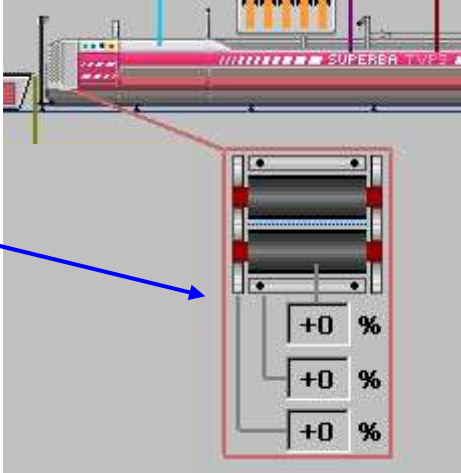
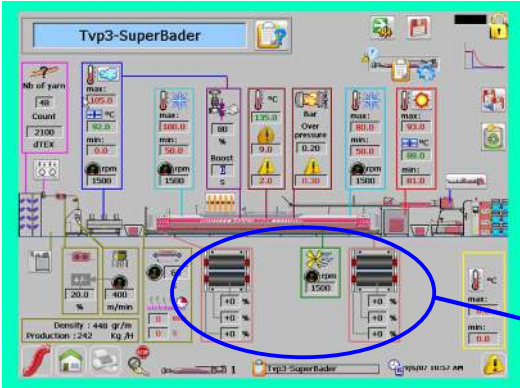
TEP3 HEAD on a TVP3

On the TEP3, the pressures of the rollers, side-plates and lamellas are controlled directly by the TVP3 advance PLC system.

The pressure are automatically adjusted in relation with the tunnel central pressure (maladjustment is impossible, so parts are lasting longer)



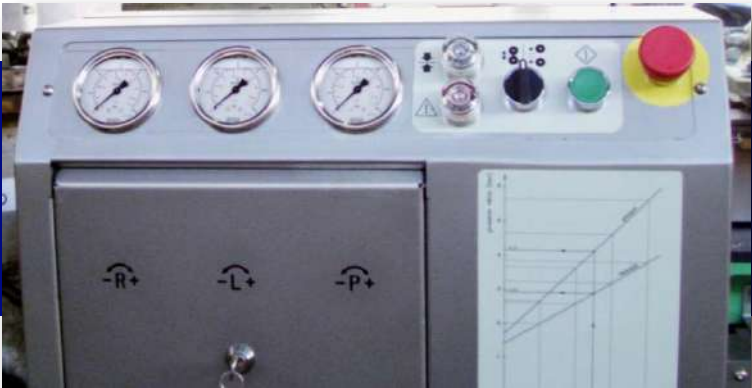
The pressures, automatically calculated and stored in the textile recipes, can also be slightly modified manually in a reasonable range (+/- 10 %) to compensate wearing or leakage if necessary.



TEP2S HEAD on a TVP2S



On the TEP2S design, the automation is achieved by a sequential pneumatic technology. Adjustment is manually set with adapted keys; three manometers are displaying actual pressure.



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SUPERBA S.A.S

147 Avenue Robert Schumann
68100 Mulhouse
Phone +33 389 362 727

info@superba.com
www.superba.com